

CLAIMS

1. A deformable system comprising a part generally in the shape of a rectangular block, such as a beam, coupled to an actuator enabling the part to be deformed by
5 generating curvature in its long direction, the system being characterized in that said part (P), in particular a mirror, presents a main portion (10) to be deformed, the main portion carrying projections at its ends such that, in longitudinal section, the part (P) presents an
10 elongate U-shape, and in that the actuator presents levers (30, 40) each presenting at least one bearing point for acting on said projections (11, 12) in order to transmit a force thereto in such a manner as to deform the part.
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2. A system according to claim 1, characterized in that each lever presents at least one bearing point constituted by at least one rigid plane part, said plane part (1) co-operating with at least one ball (5) for
20 transmitting the force that is to be applied.
3. A system according to claim 2, characterized in that at least one ball (1) is centered by spring blades (5) distributed around its periphery.
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4. A system according to any one of claims 1 to 3, characterized in that at least one lever presents a first bearing point disposed in an outside portion of the part (10), and a second bearing point spaced apart from the
30 first bearing point towards a free end (13, 14) of said projection (11, 12) and disposed on an inside portion (11', 12') of said projection (11, 12).
5. A system according to claim 4, characterized in that
35 the first bearing point is adjacent to the face (15) of the main portion (10) of the part (P) that is opposite from said projections (11, 12).

6. A system according to any one of claims 2 to 5, characterized in that the first and/or second bearing point comprises two of said rigid plane parts (1).

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7. A system according to claim 6, characterized in that the first and/or second bearing point comprises a rocker (6) covering said two rigid plane parts (1).

10 8. A system according to any preceding claim, characterized in that it presents an isostatic support interface situated in the plane of the neutral fiber (FNE) of the central region (10) of the part (P).